

Safety Data Sheet

release date 19-JUN-2001
replaces all previous editions

Trade Name Syngenta

BANVEL 480 S

1. Identification of the substance / preparation and of the company / undertaking

Identification of the substance or preparation

Trade Name Syngenta BANVEL 480 S
Design Code A7254B
AGI Code 240224

Company / undertaking identification

Company Syngenta Crop Protection AG
P.O. Box
CH-4002 Basel
Switzerland
Phone +41 61 323 11 11
Fax +41 61 323 12 12

Product Information Phone (office hours) +41 61 323 40 40

Emergency **Phone (24h) +41 61 323 33 33**

Emergency Information concerning
- transport see emergency phone number in the shipping documents
- storage see emergency phone number of local Syngenta organization

2. Composition / information on ingredients

Chemical characteristic

Formulation type	Soluble concentrate			
Use	Herbicide			
Active ingredient(s)	48	% w/v	dicamba	SAN837

Hazardous Component(s)					
CAS	Name	% w/w	Hazard Symbol	Special Risks	
2300-66-5	dicamba-dimethylammonium	40	Xi	36-52/53	

3. Hazards Identification

Health Hazards: Irritating to eyes.

Environmental hazard in case of accident (Spillage/Leakage): Slight.

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4. First-Aid Measures

First-Aid Measures

General: In case of indisposition place the patient in a well-ventilated area and protect him from hypothermia.

Eye Contact: Rinse eyes with clean water for several minutes and immediately call a physician.

Ingestion: Repeatedly administer medicinal charcoal in a large quantity of water. NOTE: Never give anything by mouth to an unconscious person. Do not induce vomiting.

Skin Contact: Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.

Inhalation: Immediately remove to fresh air.

Medical Instructions

Antidote: No specific antidote is known! Apply symptomatic therapy.

5. Fire-Fighting Measures

Combustibility: This product is combustible at elevated temperatures.

Extinguishing media

Suitable Extinguishing Media: Dry chemical extinguisher, foam, carbon dioxide or waterspray (do not use direct jet of water).

Fire fighting

Special Hazards during Fire Fighting: Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.

Hazardous Combustion Products: carbon dioxide; carbon monoxide; nitrogen oxides; hydrogen chloride;

Protective Equipment for Fire Fighting: Use self contained breathing apparatus. Wear protective equipment.

Swiss Fire Prevention Class: F4 L CO

6. Accidental Release Measures

Environmental Protection Measures following Accidents: Cover up product with absorptive material such as sand, soil, diatomaceous earth, etc. and dispose of in an incinerator approved for chemicals. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers.

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7. Handling and Storage

Handling information

General: Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. Do not eat, drink or smoke while working. In addition to the measures usually taken in chemical works like splashproof filling and measuring equipment (including vapour stripping), further personal protection measures may have to be implemented to avoid possible contact with the product.

Storage information

Special Instructions for Storage: Store the product in closed original containers. Protect from light and humidity.

Storage Compatibility with other Products: Store separately from feed, food and stimulants.

Storage Temperature

Max. Storage Temperature: 40 °C

8. Exposure controls / Personal protection

Personal protective equipment

In General: Change working clothes daily.

Breathing Protection: In case of heavy exposure, wear: Gas mask.

Eye Protection: Goggles or face-shield

Hand Protection: Chemical-resistant gloves

Body Protection: Heavy duty cotton or synthetic fabric working clothes (e.g. overalls). Rubber apron. Heavy-duty shoes or boots.

Precautionary measures after work: Wash thoroughly (shower, bathe, wash hair). Change clothing. Thoroughly clean protective gear. Thoroughly clean contaminated equipment with soap or soda solution.

9. Physical and Chemical Properties

Form:	liquid	
Color:	yellow to brownish	
Physical State:	liquid	
Melting Point/Range:	not applicable	OECD 102
Boiling Point/Range:	100 °C (1013.25 hPa)	OECD 103
Flash-Point:	not detected	EEC A 9
Oxidizing Properties:	not oxidizing	
Explosive Properties		EEC A 14
Assessment:	not explosive	
Shock Sensitivity:	not shock sensitive	
Vapour Pressure:	not applicable	OECD 104
Density:	1.16 - 1.20 g/cm ³ (20 °C)	OECD 109
Solubility in water:	soluble (25 °C; pH=7.0)	
pH Value:	5 - 9 (1 %; in deionised water)	CIPAC MT 75.2
Surface Tension:	72.7 mN/m (1.0 g/l; in distilled water; 20 °C)	EEC A 5
Miscibility with water:	miscible (1 %; ca 23 °C)	
Dynamic Viscosity:	9.21 mPa.s (10 - 200 rps; 20 °C)	OECD 114

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10. Stability and Reactivity

Chemical Stability

Assessment: Stable under standard conditions.

Sensitivity

Thermal Sensitivity: thermally not sensitive

11. Toxicological Information

Acute Oral Toxicity

LD50: 3541 mg/kg (mouse)

EPA NO. 81-1

Acute Oral Toxicity

LD50: 2558 mg/kg (rat; Limit Test; female)

OECD 401

LD50: 2375 mg/kg (rat; Limit Test; male)

Acute Dermal Toxicity

LD50: > 8000 mg/kg (rabbit)

EPA NO. 81-2

Acute Dermal Toxicity

LD50: > 4000 mg/kg (rat; Limit Test)

OECD 402

Acute Inhalation Toxicity

LC50: > 5.4 mg/l (rat; 4 h)

EPA NO. 81-3

Acute Skin Irritation:

non irritant (rabbit; assessment according to 93/21/EEC)

EPA NO. 81-5

Acute Eye Irritation:

irritant (rabbit; assessment according to 93/21/EEC)

EPA NO. 81-4

Skin Sensitization:

not sensitizing (guinea pig; Buehler test)

EPA NO. 81-6

12. Ecological Information

Acute Toxicity to Fish

LC50: > 1000 mg/l (Oncorhynchus mykiss (Rainbow trout); 96 h; Semi-static conditions)

Growth Inhibition, Algae

IC50: > 250 mg/l (Selenastrum capricornutum (green algae); 96 h)

Toxicity to Aquatic Invertebrates

EC50: > 1600 mg/l (Daphnia magna (water flea); 48 h; Static conditions)

Toxicity to Bacteria

IC50: > 500 mg/l (act. sewage sludge; 3 h)

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13. Disposal Considerations

Disposal

Product Disposal: Pay attention to protective clothing and measures. Cover up product with absorptive material such as sand, soil, diatomaceous earth, etc. Collect material in specially marked, tightly closing containers. Clean dirty areas with water and detergent. Put washing water in containers too, to avoid any contamination of surface and ground water, water supplies and drains. Hose down the area for a prolonged period. Heavily contaminated soil layers have to be dug out down to clean soil. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative and dispose of in an incinerator approved for chemicals.

Container Disposal: Dispose of empty containers in an incinerator approved for chemicals. Damaged containers: Place original containers in specially marked larger ones. Check possibilities of recycling large empty containers, drums and barrels.

14. Transport Information

Special Information: Use unbreakable containers, make sure they cannot fall, and label in accordance with regulations.

Rail / Road (RID / ADR) Not classified as dangerous good

Sea (IMDG-Code) Not classified as dangerous good

Air (ICAO / IATA) Not classified as dangerous good

Swiss POST: 1 (Not restricted for Switzerland)

15. Regulatory Information

EU-Classification

Hazard Symbol Xi Irritant

Special Risks 36 Irritating to eyes.

Safety Advice 2 Keep out of the reach of children.

13 Keep away from food, drink and animal feedingstuffs.

20/21 When using do not eat, drink or smoke. dicamba-dimethylammonium

Source of Hazard

International

WHO Toxicity Classification III Slightly hazardous

Swiss Poison Law

Toxicity Category 4

Weight limit (Switzerland)

as prescribed by accident regulations 200000 kg

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16. Other Information

The information contained herein is based on the present state of our knowledge as is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.
